

UTAH CTE SKILL CERTIFICATION PERFORMANCE EVALUATION

Test Numbers: #820, 822, 824 & 826 **Test Name:** Computer Programming I

(PRINT) Student's Name: _____

Date: _____

(PRINT) Teacher's Name: _____

School: _____

Teacher's Signature: _____

District: _____

The performance evaluation **is a required component of the skill certification process**. Each student must be evaluated on the required performance objectives below. Performance objectives should be completed and evaluated anytime during the course. Students who achieve a 3 or 4 (moderately to highly skilled) on **ALL** performance objectives, and 80% on the written test will be issued an ATE skill certificate.

INSTRUCTIONS:

- Students should be aware of their progress throughout the course, so that they can concentrate on the objectives that need improvement.
- Students should be encouraged to repeat the objectives until they have performed at a minimum of a number **3 or 4 on the rating scale (moderately to highly skilled level)**.
 - 4 = highly skilled Successfully demonstrated without supervision
 - 3 = moderately skilled Successfully demonstrated with limited supervision
 - 2 = limited skill Demonstrated with close supervision
 - 1 = not skilled Demonstration requires direct instruction and supervision
- When a performance objective has been achieved at a minimum of 80% (moderately to highly skilled level), **"Y" (Y=YES)** is recorded on the performance summary evaluation form. If a student does not achieve a 3 or a 4 (moderately to highly skilled level), then an **"N" (N=NO)** is recorded on the summary sheet for that objective.
- All performance objectives **MUST** be completed and evaluated prior to the written test.
- The teacher will bubble in **"A"** on the answer sheet for item **#81** for students who have achieved **"Y"** on **ALL performance objectives**.
- The teacher will bubble in **"B"** on the answer sheet for item **#81** for students who have **ONE or more "N's"** on the performance objectives.
- The signed evaluation sheet(s) **MUST** be kept in the teachers' file for two years.
- A copy is also kept on file with the school's ATE skills certification testing coordinator for two years.

Computer Programming I Performance Objectives

Yes		No		
4	3	2	1	Standard 1 - The student is familiar with and uses a programming environment.
				<ul style="list-style-type: none"> ● Demonstrated the ability to use an operating system. ● Demonstrated the ability to enter, edit, compile, debug and execute programs.
Yes		No		
4	3	2	1	Standard 2 - The student employs accepted programming methodology.
				<ul style="list-style-type: none"> ● Demonstrated the ability to use proper programming style, order, and design techniques with automatic error checking.
Yes		No		
4	3	2	1	Standard 3 - The student properly uses language-fundamental commands and operations.
				<ul style="list-style-type: none"> ● Demonstrated the ability to use basic elements of a specific language such as: templates, variables, constants, arithmetic expressions, input, and output.
Yes		No		
4	3	2	1	Standard 4 - The student properly employs control structures.
				<ul style="list-style-type: none"> ● Demonstrated the ability to use relational and logical operators, decisions, loops, recursion and sub-programs
Yes		No		
4	3	2	1	Standard 5 - The student employs proper static data structures.
				<ul style="list-style-type: none"> ● Demonstrated the ability to use atomic data types, static arrays, and strings.
Yes		No		
4	3	2	1	Standard 6 -The student properly employs object-oriented programming techniques.
				<ul style="list-style-type: none"> ● Demonstrated the ability to use classes, including objects, object data members and member methods (functions). ● Demonstrated the ability to create and use user-defined classes including user-defined data members and methods..
Yes		No		
4	3	2	1	Standard 7 - The student properly uses sequential files.
				<ul style="list-style-type: none"> ● Demonstrated the ability to create, initialize, update sequential files. ● Demonstrated the ability to store and retrieve data from sequential files.
Yes		No		
4	3	2	1	Standard 8 - The student has applied appropriate programming skills as an effective member of a team.
				<ul style="list-style-type: none"> ● Demonstrated the ability to work as an effective member of a development team completing assigned work according to predetermined time lines, with professionalism and a good attitude. ● Developed a software application as a member of a team.
Yes		No		
4	3	2	1	Standard 9 - The student has demonstrated knowledge of current ethical issues dealing with computers and information in society.
				<ul style="list-style-type: none"> ● Demonstrated proper ethical behavior in class, and understands the consequences and ramifications of society's dependence on computers in regard to data privacy and security.
Yes		No		
4	3	2	1	Standard 10 - The student has developed an awareness of career opportunities in the computer programming/software engineering industry and of its history.
				<ul style="list-style-type: none"> ● Demonstrated an understanding of the computer programming/software engineering industry and requirements for employment. ● Compiled a portfolio of individual and group programs developed during the course.